SECTION I: GREEN STORMWATER INFRASTRUCTURE (GSI)	SECTION IV: GSI STANDARD DETAILS				APRIL
The City of Seattle's Stormwater Code requires that single-family residential projects implement Green Stormwater Infrastructure (GSI) to the maximum extent feasible. GSI is a stormwater Best Management Practice (BMP) that utilizes infiltration, dispersion, evaporation, transpiration, and/or detention. The intent of GSI is to help mitigate the impacts of development. GSI provides a function in addition to stormwater management such as water reuse, open space or providing green space and/or wildlife habitat in the City. The goal is to encourage a smaller building footprint and to effectively manage stormwater runoff as close to the point of	DETENTION CISTERN DOWNSPOUT OR OTHER INLET DEBRIS SCREEN ACCESS FOR CLEANING SELF CLEANING OVERFLOW PIPE 4" MIN	PERMEABLE PAVEMENT SURFACE PERMEABLE WEARING COURSE (PAVER, ASPHALT OR CONCRETE)	BIORETENTION CELL WITH SLOPED SIDES CELL TOP WIDTH OVEREI OW PIPE 2"	BIORETENTION PLANTER OVERFLOW PIPE 2" ON 6" MIN FREEBOARD OVERFLOW PIPE 2" DIA. MIN OVERFLOW PIPE 2" ON 6" MIN OVERFLOW PIPE 2"	
Refer to Director's Rule – Requirements for Green Stormwater Infrastructure for further information, Credits and Sizing Factors. SECTION It: GSI WORKSHEET		(IF REQUIRED FOR PROPRIETARY PRODUCTS) 3" AGGREGATE SUBBASE 4" AG	2"-12" PONDING DEPTH	12" MIN/MAX PONDING DEPTH 2" TO 3" MULCH LAYER HEREFERENCE HEREFE	
y ☐ Parcel-Based	3' MIN SHUT OFF VALVE		SLOPE VARIES BOTTOM (2.541 VMDTH (2.541 VMDTH (3.541 VMDTH VMDTH	T ACCEPTANTE	
- your project has less than 5,000 st of new plus replaced impervious Area —> sf - you use the design infiltration rate and/or ponding depth(s) shown. *If your project does not meet the above, you must use the electronic version. Area Mitigation Target —> sf	FLOW DISSIPATOR OVERFLOW PIPE TO APPROVED DISCHARGE POINT	UNCOMPACTED SUBGRADE————————————————————————————————————	BERM (IF NEEDED)	RESERVOIR # MIN SLOTIED UNDERDRAIN # MIN SLOTIED UNDERDRAIN # MIN SLOTIED UNDERDRAIN	iects
Trees Total Canopy Area of Trees Sf x 20% (or min 100 sftree) =	NOTES: NOTES: REMOVABLE INLINE OR 1. OVERFLOW PIPE CAN BE INTERIOR OR EXTERIOR TO CISTERN. PIXED ORIFICE 0.5" DIA 2. MAXIMUM OF TWO CISTERNS CAN BE USED. 3. MINIMUM SIZE OF CISTERN SHALL BE 300 GALLONS.	2. AGGREGATE SUBBASE SHALL BE TYPE 22-5/8"-3/4" CLEAR, CRUSHED GRAVEL. 3. PERMEABLE PAVEMENT SURFACE MUST BE LESS THAN 5% SLOPE TO RECEIVE FLOW CONTROL CREDIT.	12" MIN BIORETENTION	OVERFLOW PIPE TO APP DISCHARGE POINT 4" D BIORETENTION PLANTER AREA (II Dro
New Evergreen # Trees	SECTION V: DRAINAGE CONTROL PLAN REQUIREMENTS	PERMEABLE PAVEMENT FACILITY	1. BOTTOM AND TOP CELL DIMENSIONS MUST BE SHOWN ON DRAINAGE CONTROL PLAN. 2. PONDING DEPTH SHALL BE NOTED ON PRE—SIZED CALCULATOR. 3. BOTTOM CELL WIDTH SHALL BE A MINIMUM WIDTH OF 2 FEET.	WIDTH OF 2 FEET. WIDTH OF 2 FEET. THE LENGTH OF THE PLANTER. 2 INCHES FOR DRAINAGE AREAS LESS NAGE AREAS GREATER THAN 1,000 SF. TOR.	. Sma
It or Sheet Flow Dispersion Dispersed Impervious Area sf x 86% =	eneral requirements: Address and perr	LEVELING COURSE (IF REQUIRED FOR PROPRIETARY PRODUCTS) OR CONCRETE)	SYMBOL: ®	SYMBOL: ®	ΔΝ
Infiltrating Facilities Bioretention Cell (without Underdrain) Ponding Depth 2 in Bioretention Bottom Area sf + 12.6% = sf	 Identification of the drawing's scale (min. 1" = 10'). Property lines and dimensions. Identification of adjacent streets (by name), alleys or other 	OVERFLOW PIPE TO APPROVED DISCHARGE POINT 4" DIA MIN AGGREGATE RESEVOIR AGGREGATE RESEVOIR	H 2' MAX RETAINING WALLS WIN OR 4" MAX PONDING DEPT 3" MULCH LAYER————————————————————————————————————		OI P
in)	ublic property. sidewalks and street trees: type, alley improvement type (asphalt,				NTR
ece	ms or any ECA areas, per CAM 103B, if they				: CO
	ng ng	THE OVERFLOW PIPE THE OVERFLOW PIPE THE FACILITY BOTTOM)	2' MIN 12" MIN BIORETENTION SOIL	FILTER FABRIC DRAINAGE LAYER DOOGOGOGOGOGOGOGOGOGOGOGOGOGOGOGOGOGOG	AGE
Impervious Surface Reduction Methods Facility Size Credit Area Mitigated Alternative Pavement Surfaces Permeable Pavement Surface (Subgrace Slope ≤2%) Permeable Pavement Area sf x 100% = sf Permeable Pavement Surface (Subgrace Slope ≤25%) Permeable Pavement Area sf x 60% = sf	retaining walls, patios, decks, porches, ro (existing and proposed). cation, size and shape of any structures	INDIES. 1. PERMEABLE PAVEMENT SURFACE FACILITY DIMENSIONS AND PAVEMENT SLOPE MUST BE SHOWN ON DRAINAGE CONTROL PLAN. 2. AGGREGATE RESERVOIR SHALL BE TYPE 22-5/8"-3/4" CLEAR, CRUSHED GRAVEL. 3. PERMEABLE PAVEMENT FACILITY MUST BE LESS THAN 5% SLOPE TO RECEIVE FLOW CONTROL CREDIT.	OVERFLOW PIPE TO APPROVED WIDTH CELL BOTTOM (12" MIN ABOVE SEASONAL HIGH OTES: NOTES: 1. BOTTOM AND TOP CELL DIMENSIONS MUST BE SHOWN ON DRAINAGE CONTROL PLAN.	SINGLE COURSE: 4" GROWTH MEDIUM MULTI COURSE: 4" GROWTH MEDIUM	RAIN
Surfaces Straces Area Sf x Signatures Area Sf x Signatures Area Sf x Signatures Area Sf x Signature Area Signature A	patios, decks, porches, rockeries and driveways proposed). location, size and species of all trees at least	SYMBOL: PP	T MINIMON		BD I
ze Sizing Factor/Credit Area Mitigat	ot to belevation	DRAINAGE CONTROL PLAN		CHECK SCALE USED: ☐ ONE SQUARE = TWO FEET (1"=10') ☐ ONE SQUARE = FOUR FEET (1"=20')	ND/
Bioretention Planter (with underdrain) Ponding Depth 6 in Bioretention Bottom Areasf +sf Bioretention Planter (with underdrain) Bioretention Bottom Areasf +sf +	ing sites or where earth grading is proposed. top and bottom of slopes and show dimensions from the polybottom tot he building(s).				STA
Il with Detention ¹ (without Underdrain) g Area (A) g Area (A) Sf Bioretention Bottom Area Contributing Area (A)	lines). In mains (sanitary only only only only only only only onl				
12 in	<pre>{psd{ and cat fire hydrants street lights, s etc adjacent l</pre>				
ty ³ Area (A) Min Cistern Area Min Cistern Vol Contributing Area (A) → 6.7 sf x 22.4 = 150 gal x 62% =	ch as side sewer, electrical ducts of mandholes, ditches culverts, etc.				
500 sf	On-site gree further instru				
X 3%	 Green stormwater infrastructure requirements: Identify contributing areas to each GSI facility. Bioretention Cells and Planters: Locations of top and bottom of cell square footage of bottom area 				: -)
of feasibility rationale	 Trees: Locations of newly planted and existing trees used for reduction credit. Permeable pavement: Location, type of pavement, slope, and total 				
in -inch gal - gallons min -minimum ft -feet in/hr - inch per hour in/hr - inch per hour ft -feet f	square footage. Impervious pavement: Location and total square footage. Green Roofs: Locations and square footage. Cisterns: Locations, contributing roof areas, discharge locations				TT
	tandard Drainage features: Pump systems (wet wells), pump cleanouts, downspouts, catch basir				EA >
	n connections to on—site basir				S
Complete the following calculator to determine the minimum number of plantings required for: Multi- Facility Size Plants					OF ■
sf x 0.012 =	SECTION VI: GSI AFFIRMATION				
Bottom & Sidessf x lerbaceous Plants Bottom & Sidessf x					<u>T</u>
Small Trees (if used) Bottom sf x 0.012 = ea Shrubs Bottom sf x 0.028 = ea Groundcover/Herbaceous Plants Bottom sf x 0.084 = ea	Affirmative statement for Green Stormwater Infrastructure to the Maximum Extent Feasible:				
Groundcover/Succulent Plants Footprintsf ×0.088 _ =sf Planting General Notes:	I,, certify that Green Stormwater Infrastructure has been implemented to the Maximum Fxtent Feasible for this project				
 For a list of approved plants, see the Seattle Green Factor plant list: http://www.seattle.gov/dpd/Permits/GreenFactor/GreenFactorTools/default.asp Plans shall specify that vegetation coverage of selected plants will achieve 90-percent coverage within 2 years or additional plantings shall be provided until this coverage requirement is met. Plants shall be sited according to sun, soil wind and moisture requirements 	/Owner's Rep				
At a minimum, provisions must be made for supplemental irrigation during the first two growing seasons following installation. Bioretention Cells and Planters Notes: Brokido Caminimum of three different energies of sharks and barbacous plants.	Date:				SHEET
 Green Roofs Notes: Appropriate plants include succulents, grasses, herbs, and wildflowers that are adapted to harsh conditions. Plants can be installed as pre-grown mats, individual plugs, cuttings, or spread as seeds. 				NODTH ADDOM	STANDA
A Landscape Management Plan shall be developed and implemented.					

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